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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,378	10/697,378 10/30/2003		Daniel S. McGuire	539.009	7897
49541	7590	05/23/2006		EXAMINER	
ROBERT I			LIN, ING HOUR		
LA CROSS		- : -	ART UNIT	PAPER NUMBER	
,				1725	
·				DATE MAILED: 05/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary 10/897,378		Application No.	Applicant(s)				
Ing-Hour Lin 1725	Office Andien Occurrence	10/697,378					
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Edealesion for many be available under the provisions of 3 CPR 1.136(i), no overth, however, may anoph be timely field after 51X (6) MONTHS from the mailing date of this communication, or the provision of the provision of the communication of the provision of Claims 4) ○ Responsive to communication(s) filed on 21 March 2006. 2a) ○ This action is FINAL. 2b) □ This action is final. 2b) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ○ Claim(s) 57-77 is/are pending in the application. 4a) Of the above claim(s) 57-74 is/are withdrawn from consideration. 5□ □ Claim(s) is/are allowed. 6) ○ Claim(s) is/are allowed. 6) ○ Claim(s) is/are allowed. 70 □ Claim(s) is/are objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Payers is/are reported. 71 □ Claim(s) is/are objected to by the Examiner. Application Papers 9) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Application Payers is are reported. 71 □ Claim(s) is/are objected to by the Examiner. 81 □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. 10 □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. 11 □ Certified copies of the priority documents have be	Office Action Summary	Examiner	Art Unit				
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the invention.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 76-77 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as

Claims 76-77 contain the trademark/trade name "welan gum" where a trademark or trade name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of 35 U.S.C. 112, second paragraph. See *Ex parte Simpson*, 218 USPQ 1020 (Bd. App. 1982). The claim scope is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product. A trademark or trade name is used to identify a source of goods, and not the goods themselves. Thus, a trademark or trade name does not identify or describe the goods associated with the trademark or trade name. In the present case, the trademark/trade name is used to identify/describe "polysaccharide binder" and, accordingly, the identification/description is indefinite.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claim 75 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moore, Jr. et al in view of either Kamohara et al or Watts.

Moore, Jr. et al (col. 2, lines 35+) substantially teach the claimed mold-forming composition for use in producing and investment casting shell, comprising binder colloidal silica and refractories including zircon, fused silica and alumina.

Moore, Jr. et al fail to teach the use of thick-ness promoting material. However, either Kamohara et al (col. 3, lines 38+) the use of the claimed thick-ness promoting material such as starch or Watts (col. 6, lines 12+) teaches the use of starch and gum in the mixture of investment material for the purpose of improving the adhesion between wax pattern and shell formed by the mixed investment material. It would have been obvious to one having ordinary skill in the art to provide Moore, Jr. et al the use of thick-ness promoting material as taught by either Kamohara et al or Watts in order to effectively promote adhesion and reduce the cycle time between the applying step and the filling step to one hour.

5. Claims 76-77 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moore, Jr. et al in view of either Kamohara et al or Watts and further in view of Anderson et al.

Moore, Jr. et al in view of either Kamohara et al or Watts fails to teach the use of welan gum (polysaccharide binder). However, Anderson et al (col. 9, lines 7+) teach the use of welan gum (polysaccharide binder) for the purpose of effectively constructing an investment casting mold by controlling adhesion and viscosity of about 15000cps (col. 31, lines 31+) for the investment material containing the polysaccharide binder. It would have been obvious to one having ordinary skill in the art to provide Moore, Jr. et al in view of either Kamohara et al or

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Watts the use of use of welan gum (polysaccharide binder) as taught by Anderson et al in order to effectively construct an investment casting mold.

Response to Arguments

6. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The examiner can normally be reached on M-F (9:00-5:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

f. fed.

I.-H. Lin

5-19-06

KEVIN KERNS Kevin Kems 5/19/06 PRIMARY EXAMINER